

FIGURE 1A

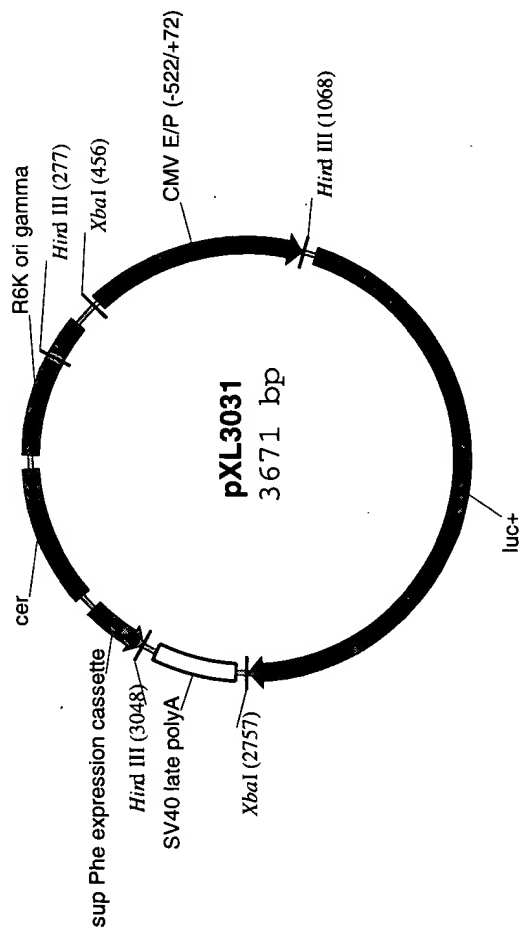


FIGURE 1B

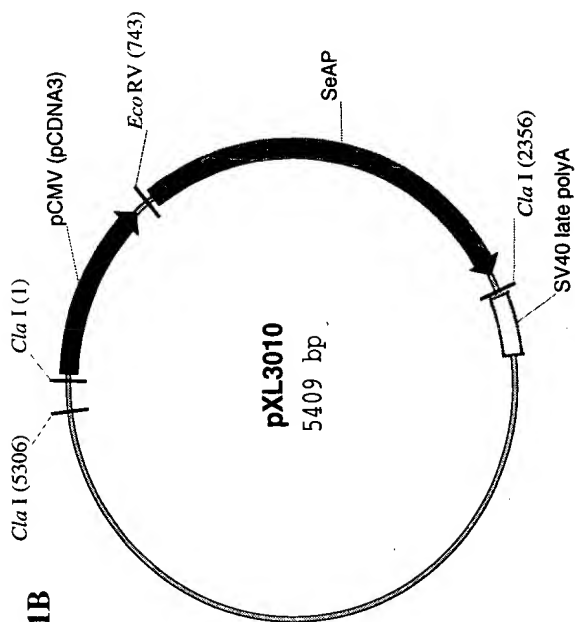
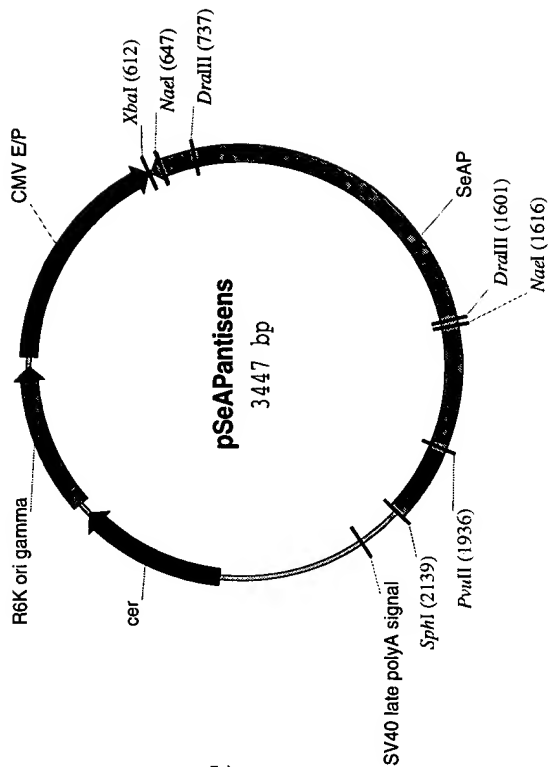


FIGURE 1C



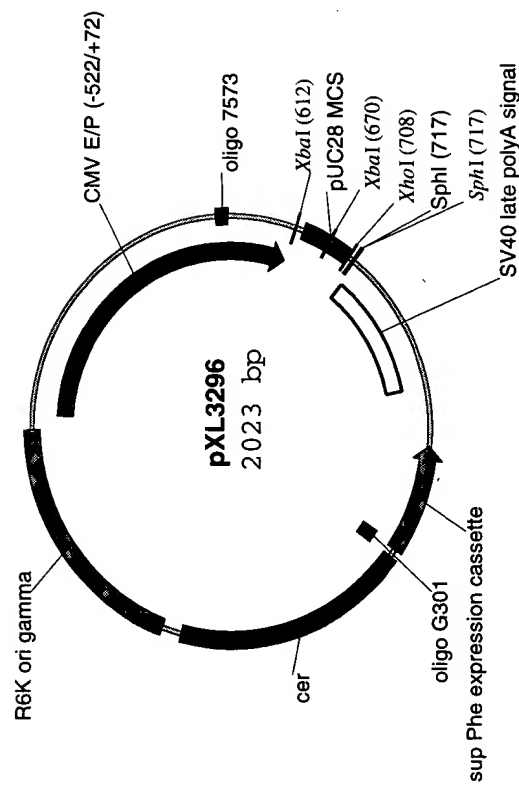


FIGURE 1D

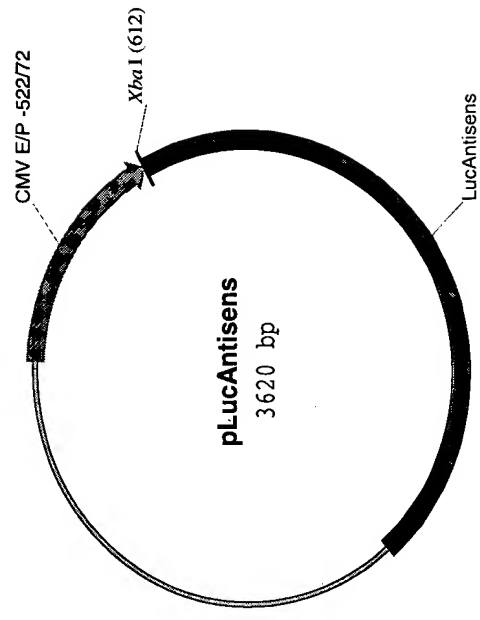


FIGURE 1E

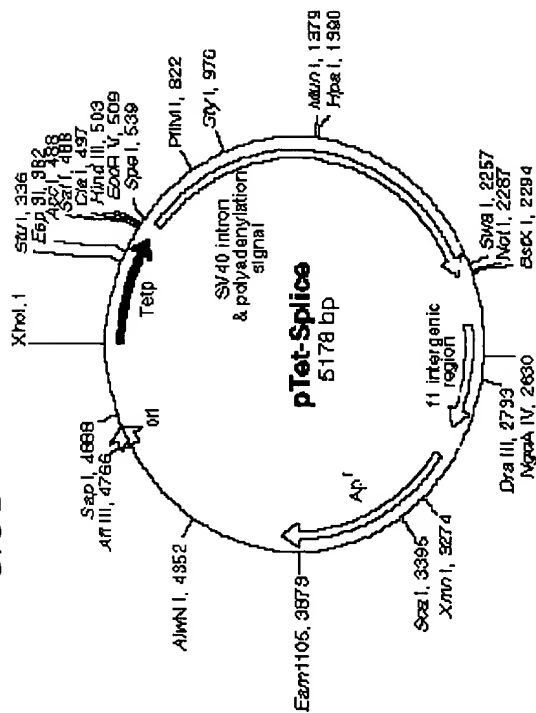


FIGURE 2A

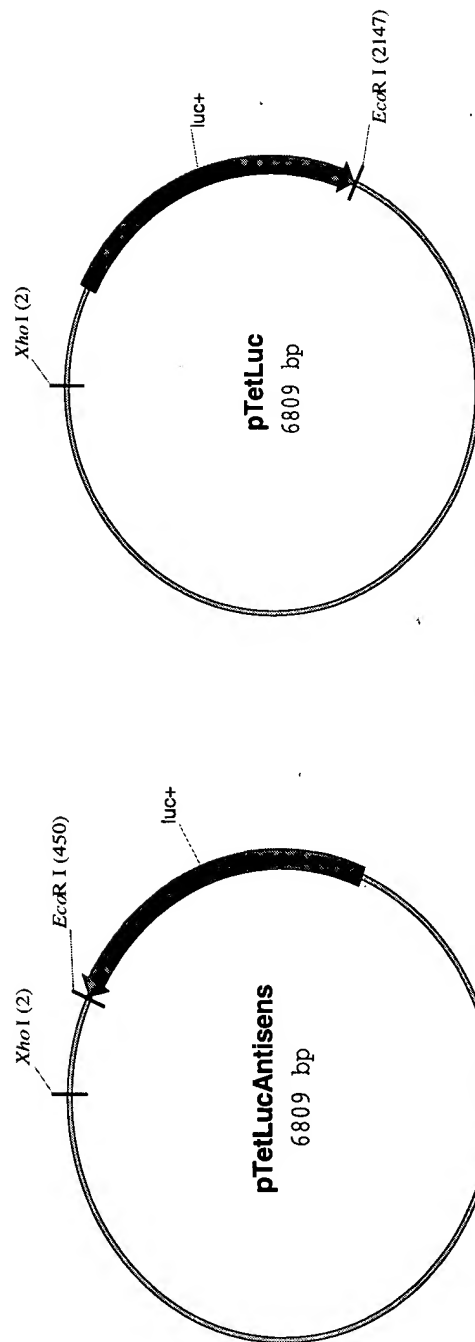


FIGURE 2B

FIGURE 2C

4/31

FIGURE 2D

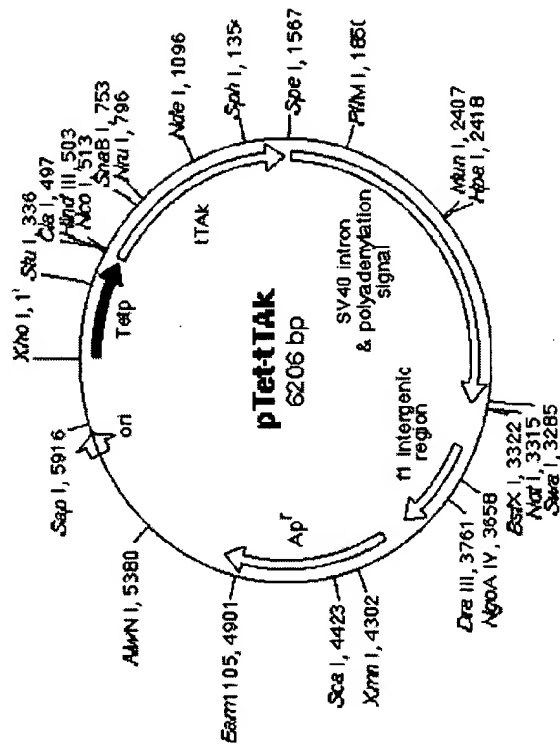
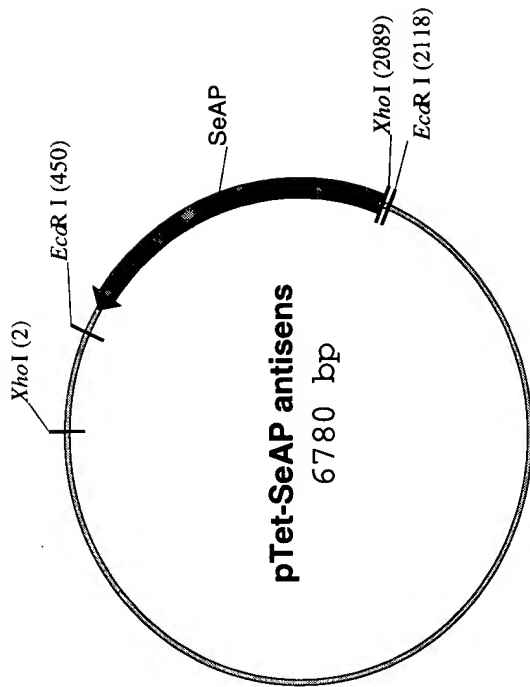
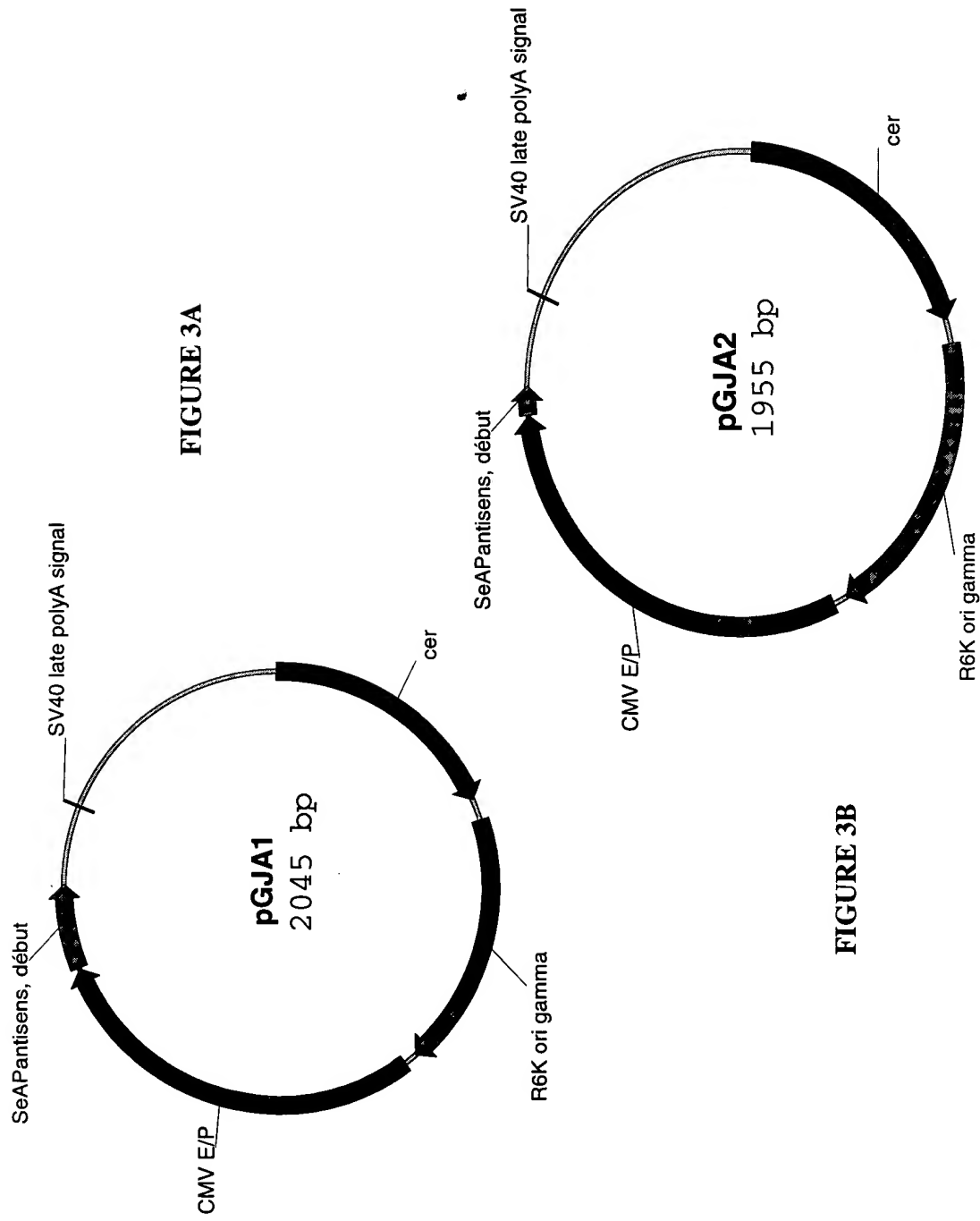


FIGURE 2E



6/31

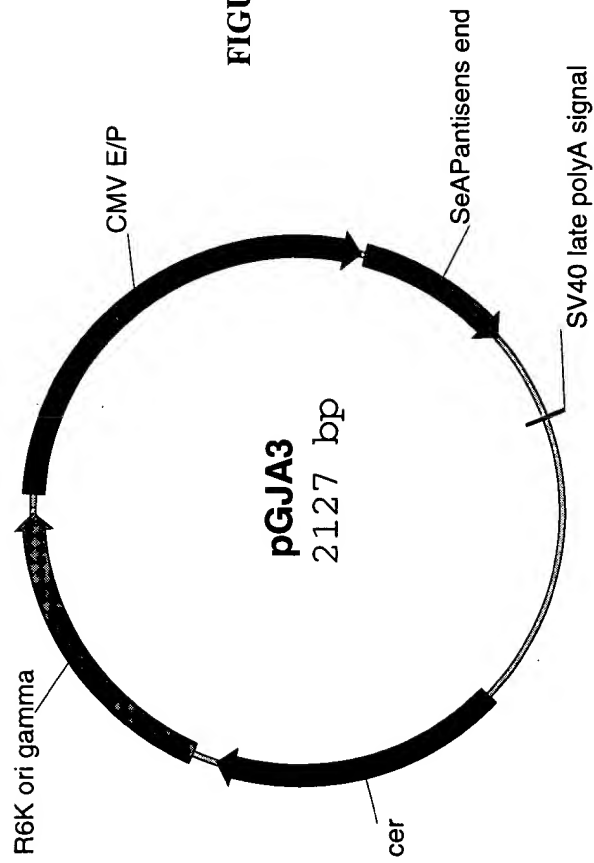


FIGURE 3C

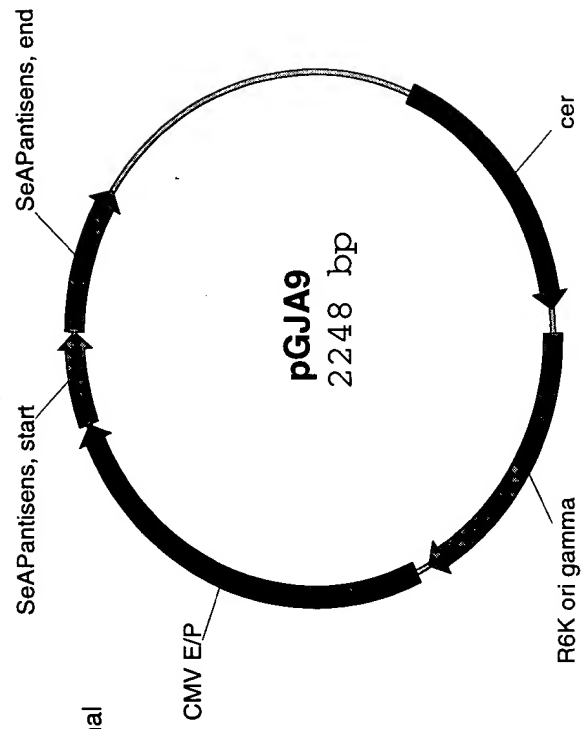


FIGURE 3D

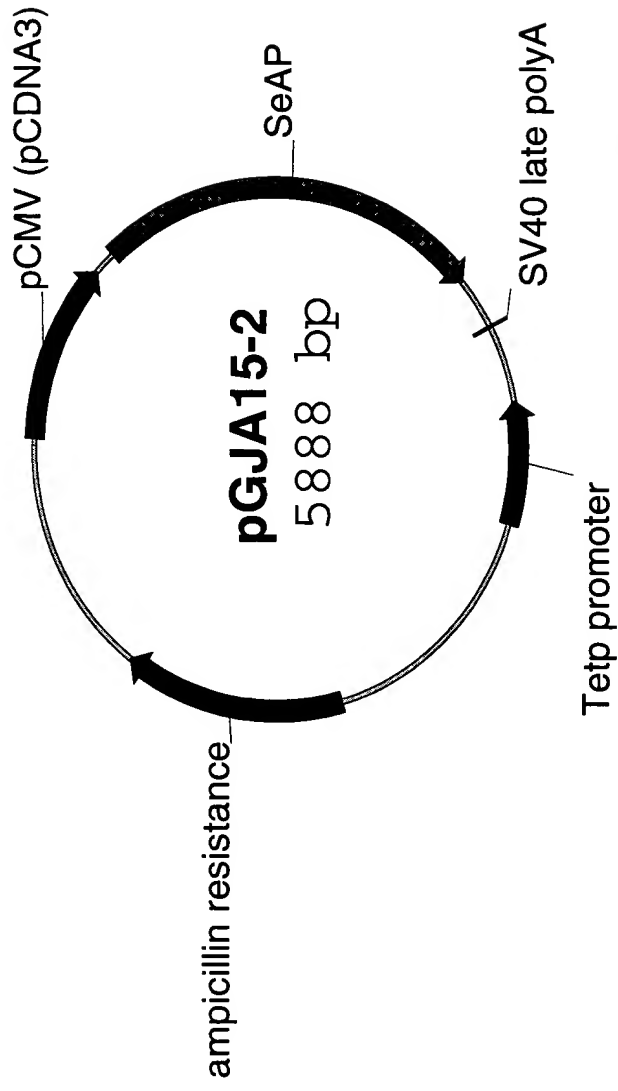


FIGURE 4A

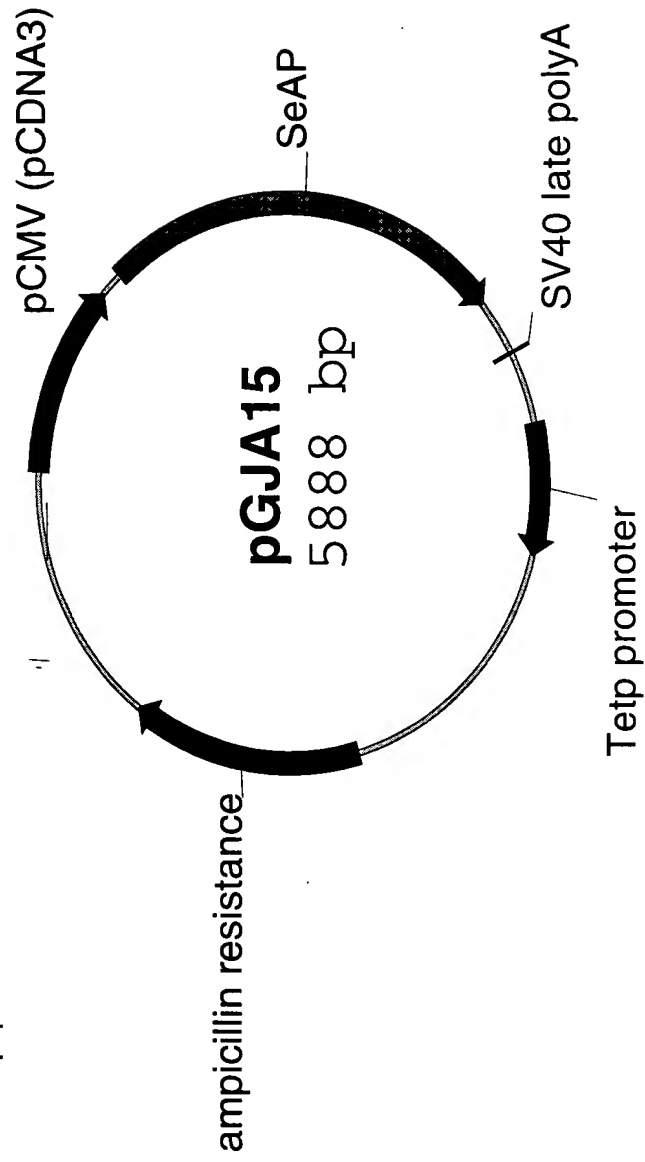
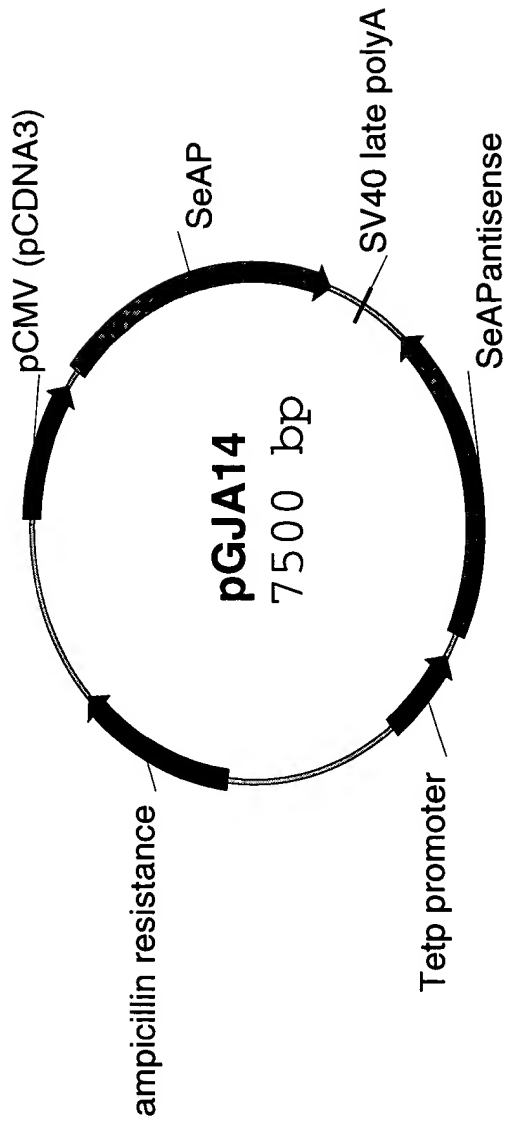
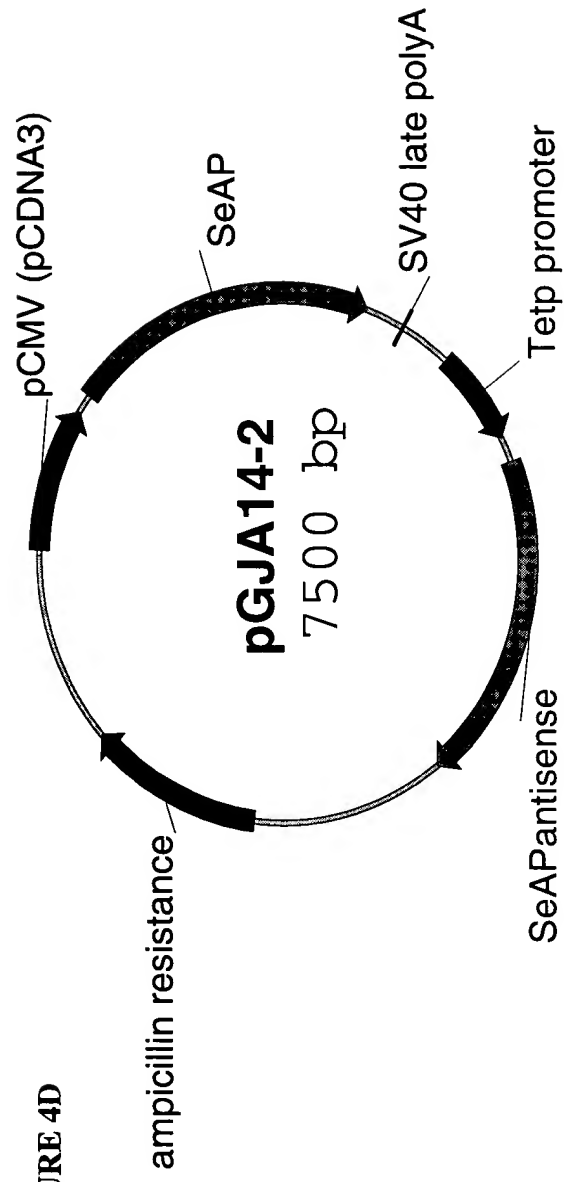


FIGURE 4B

8/31



**FIGURE 4C**

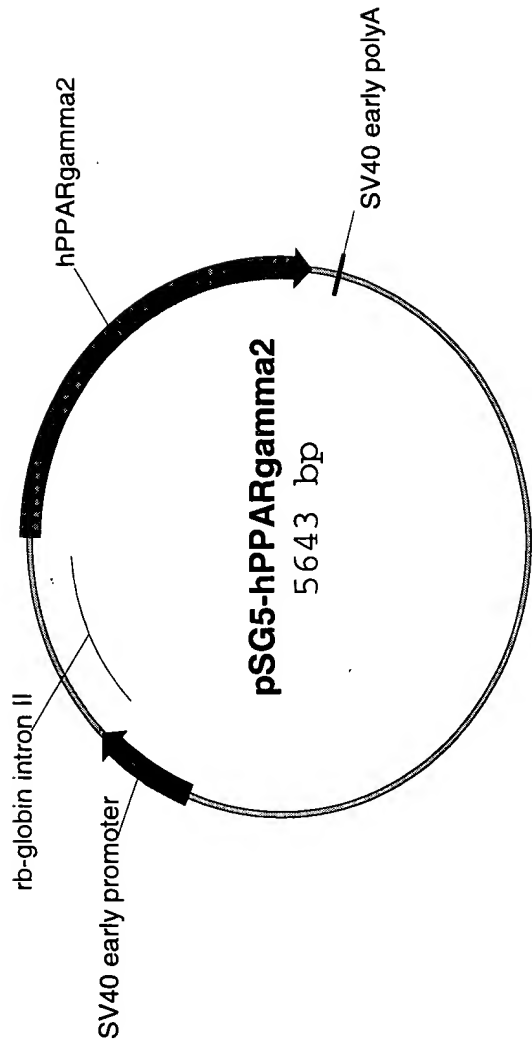


**FIGURE 4D**



9/31

**FIGURE 5A**



**FIGURE 5B**

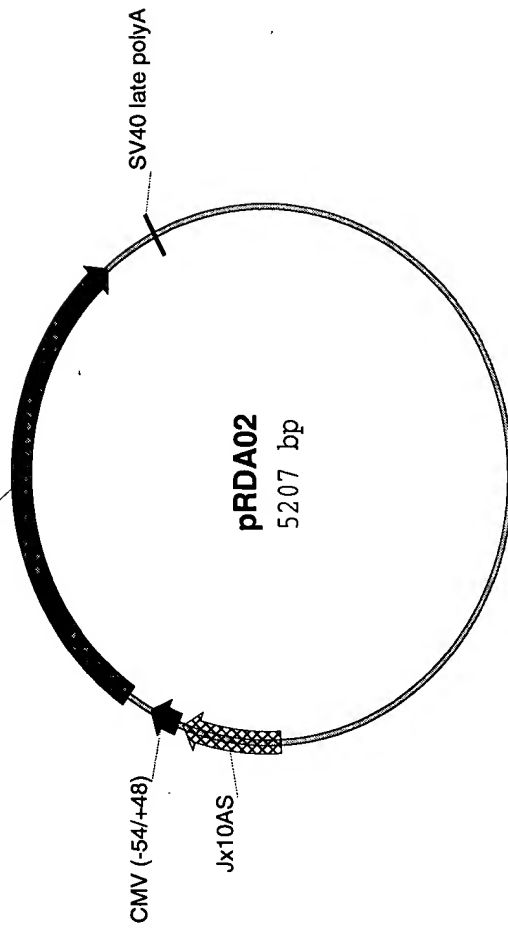


FIGURE 6A

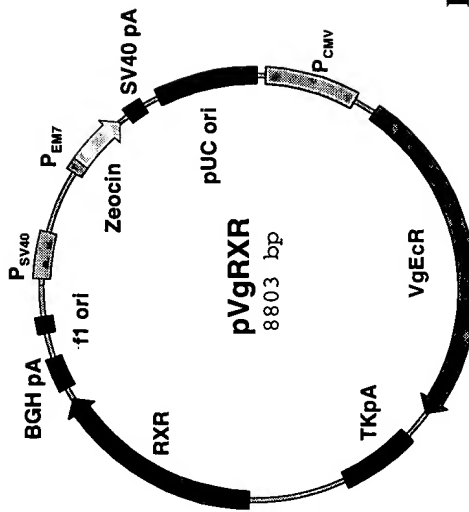
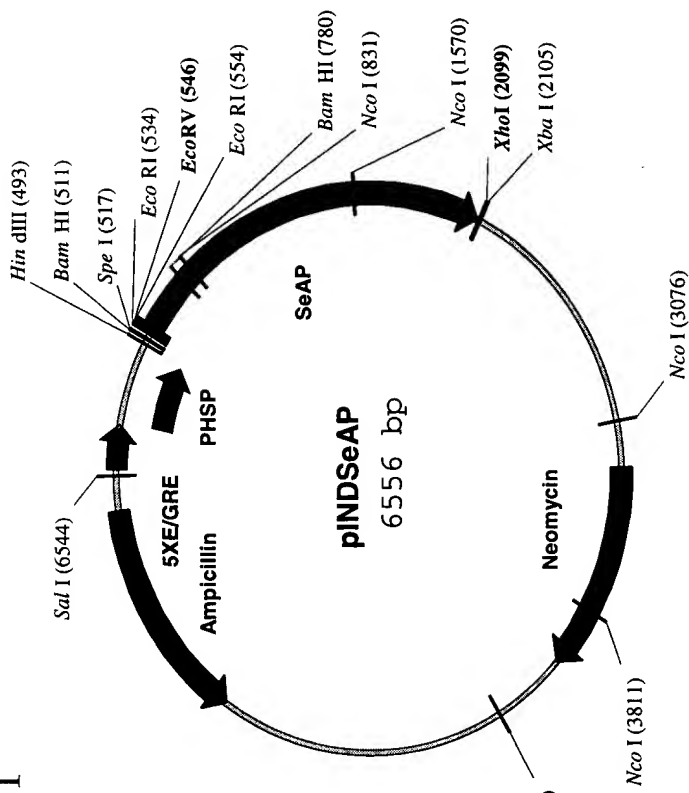
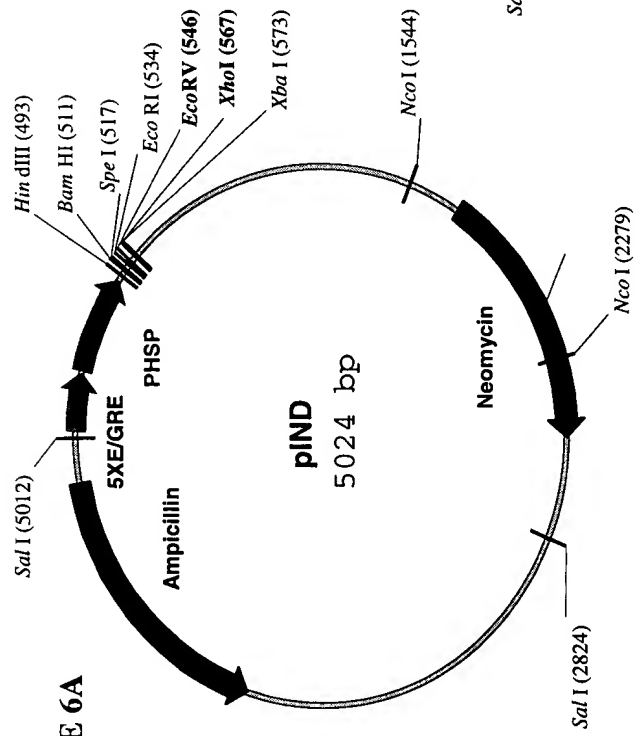


FIGURE 6B

FIGURE 6C

11/31

FIGURE 7A

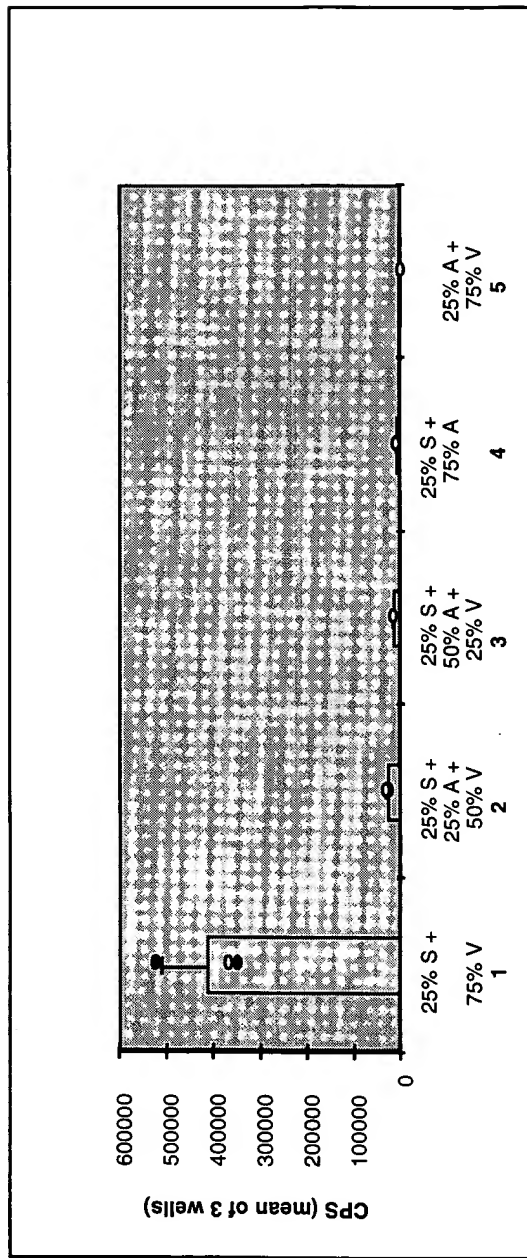
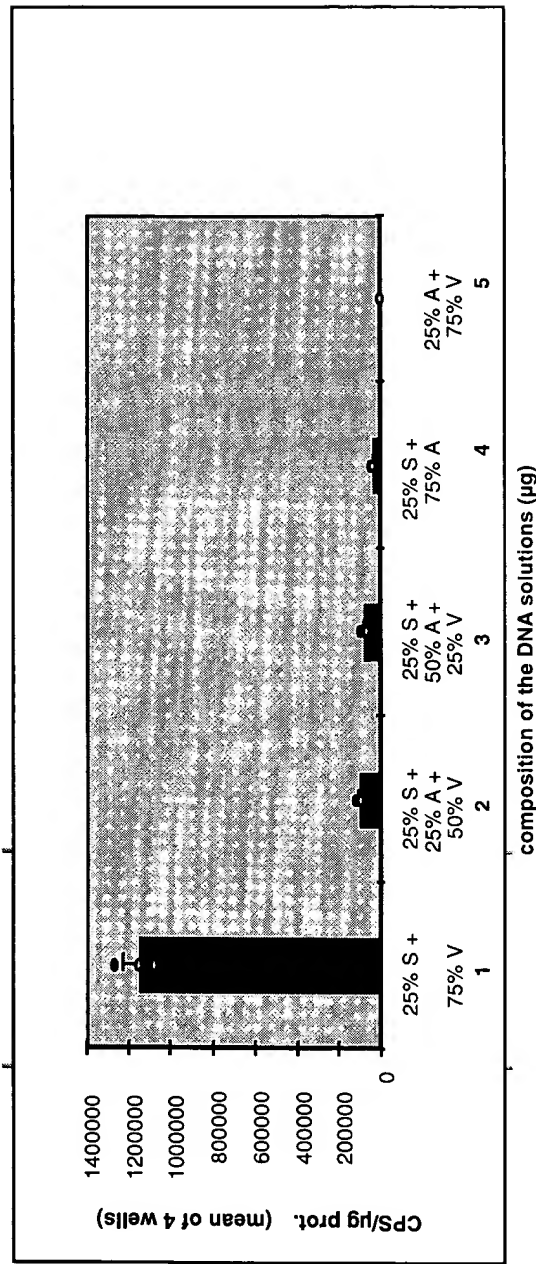


FIGURE 7B



12/31

FIGURE 8

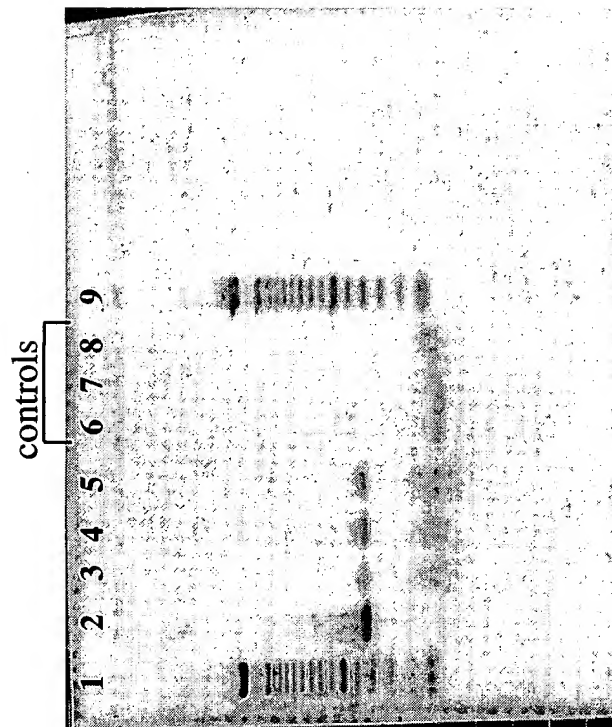


FIGURE 9A

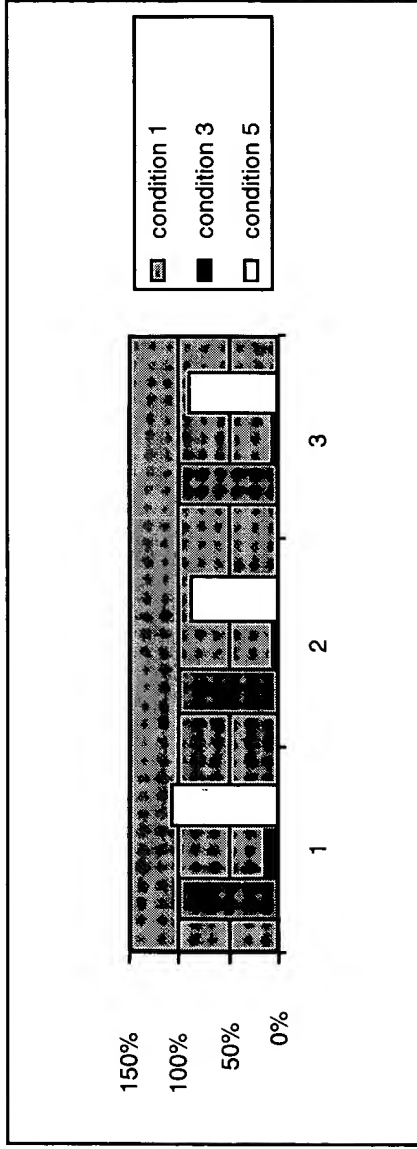
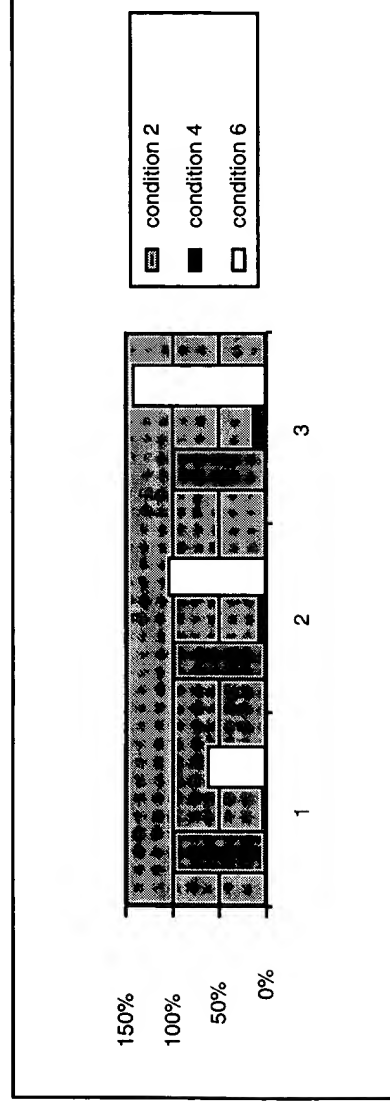
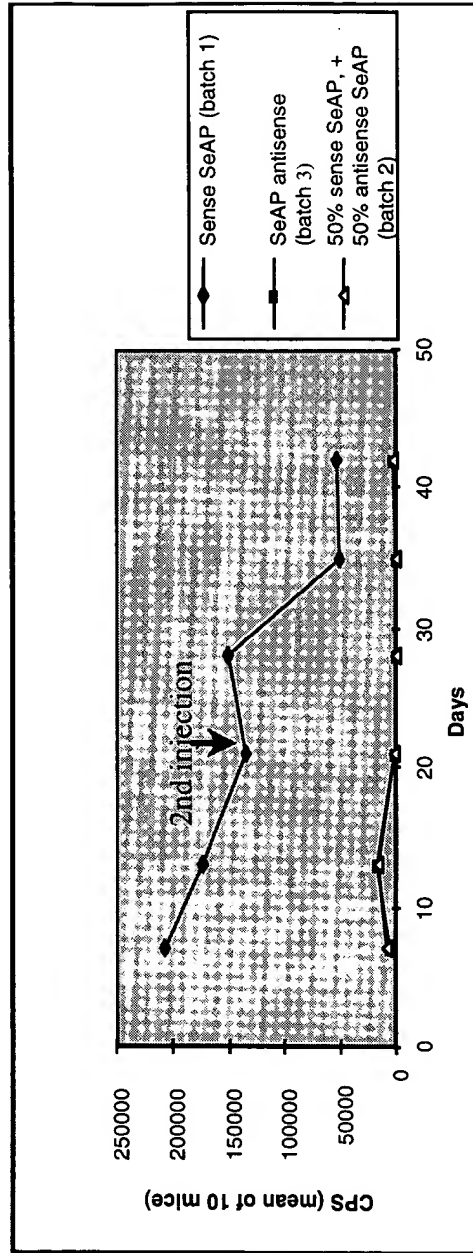


FIGURE 9B

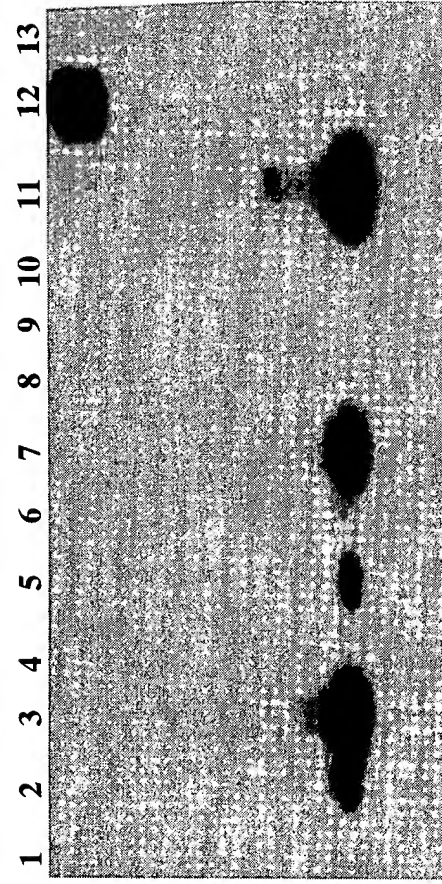
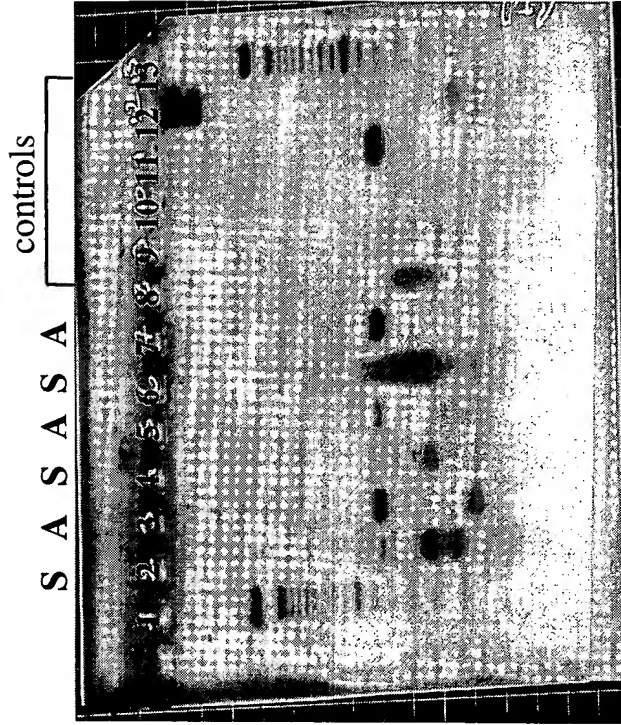


14/31

FIGURE 10



15/31



16/31

FIGURE 12

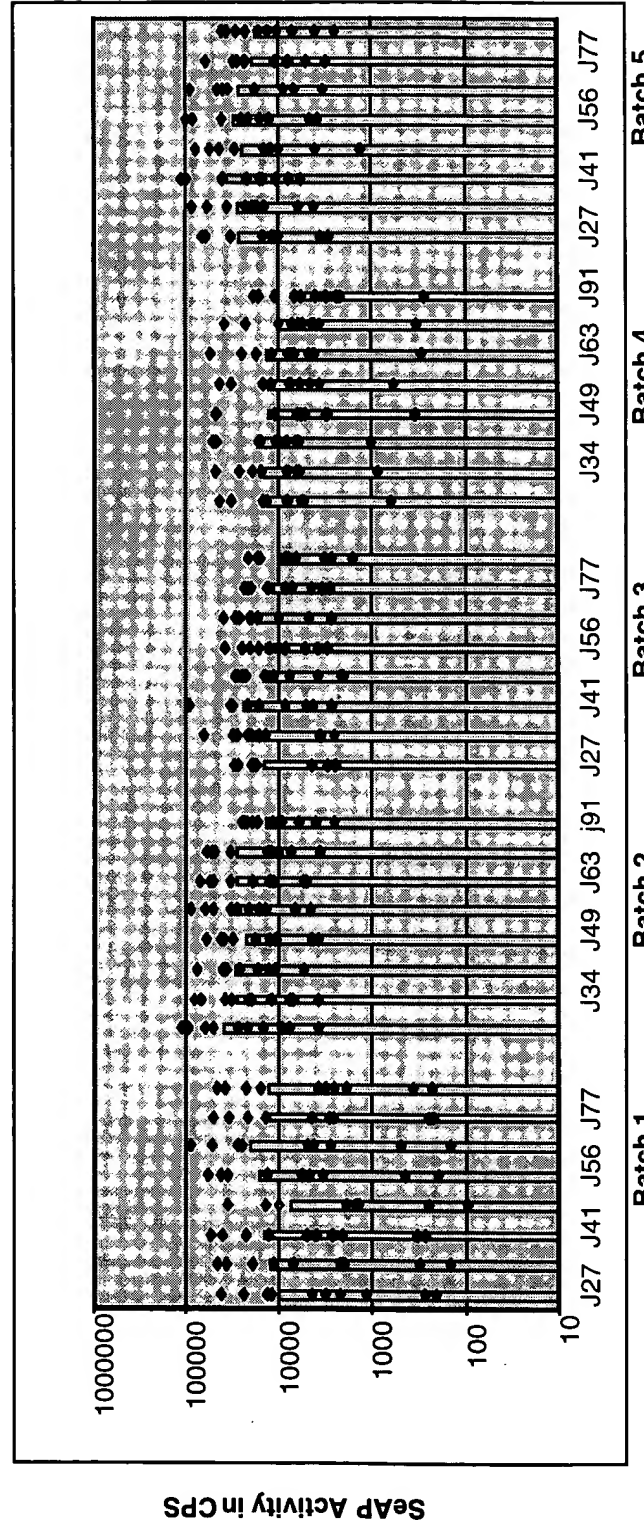




FIGURE 13

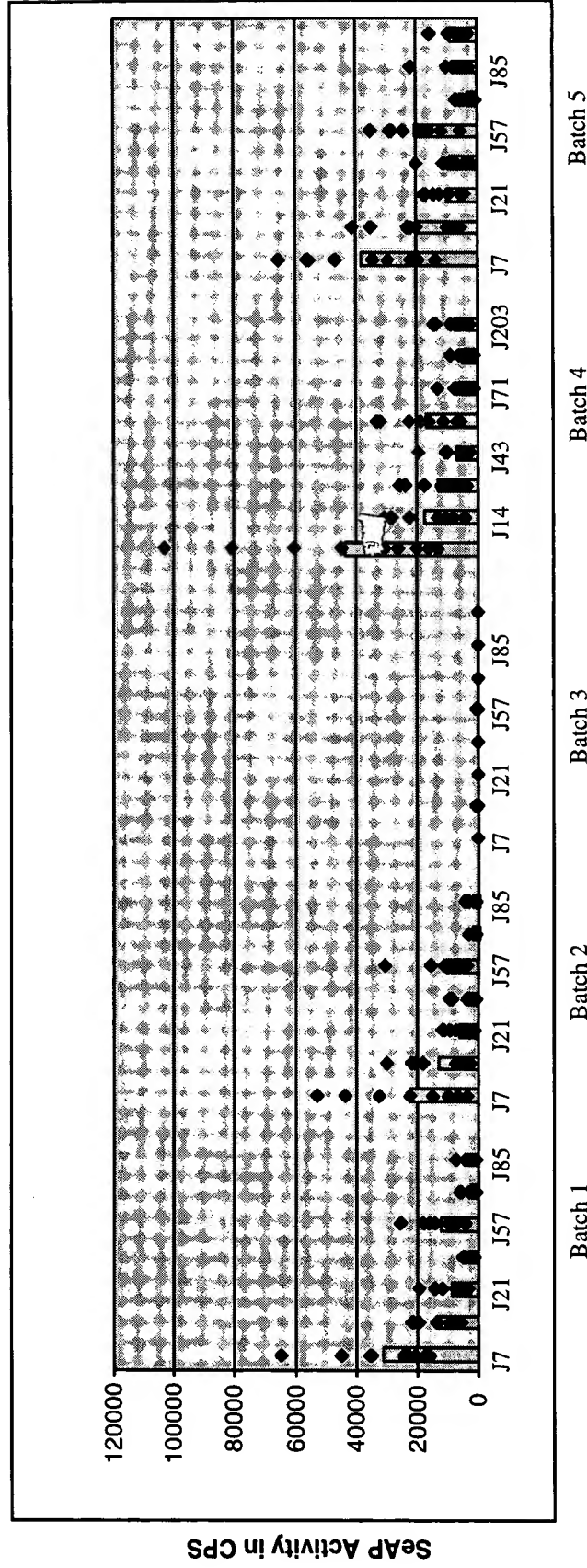


FIGURE 14A

18/31

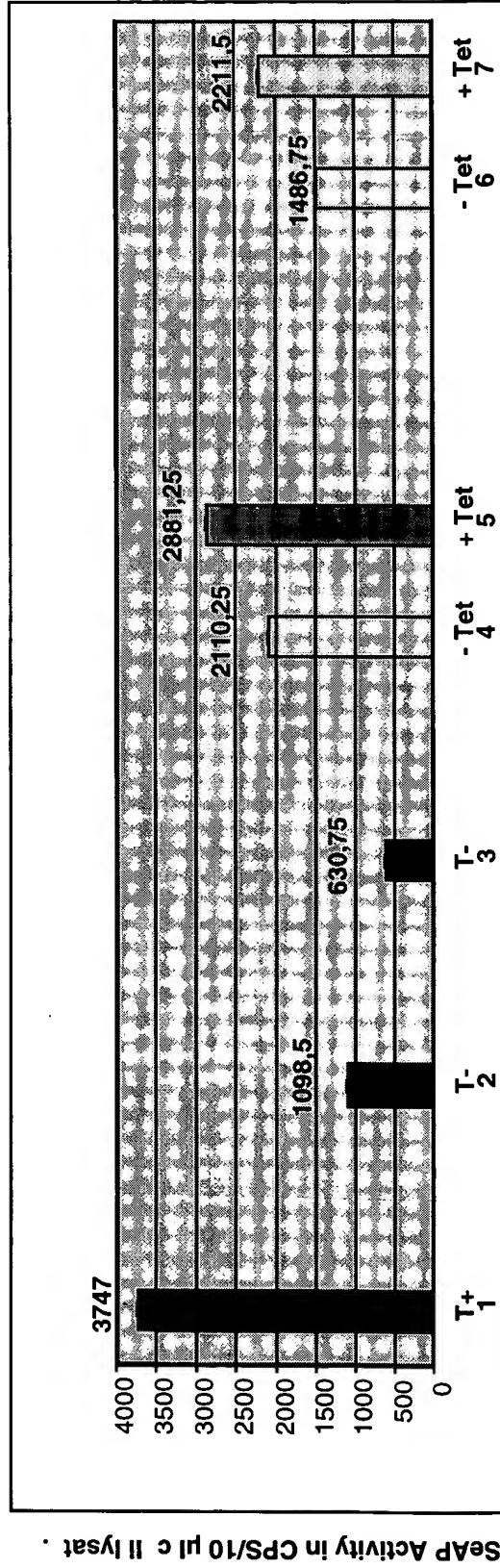
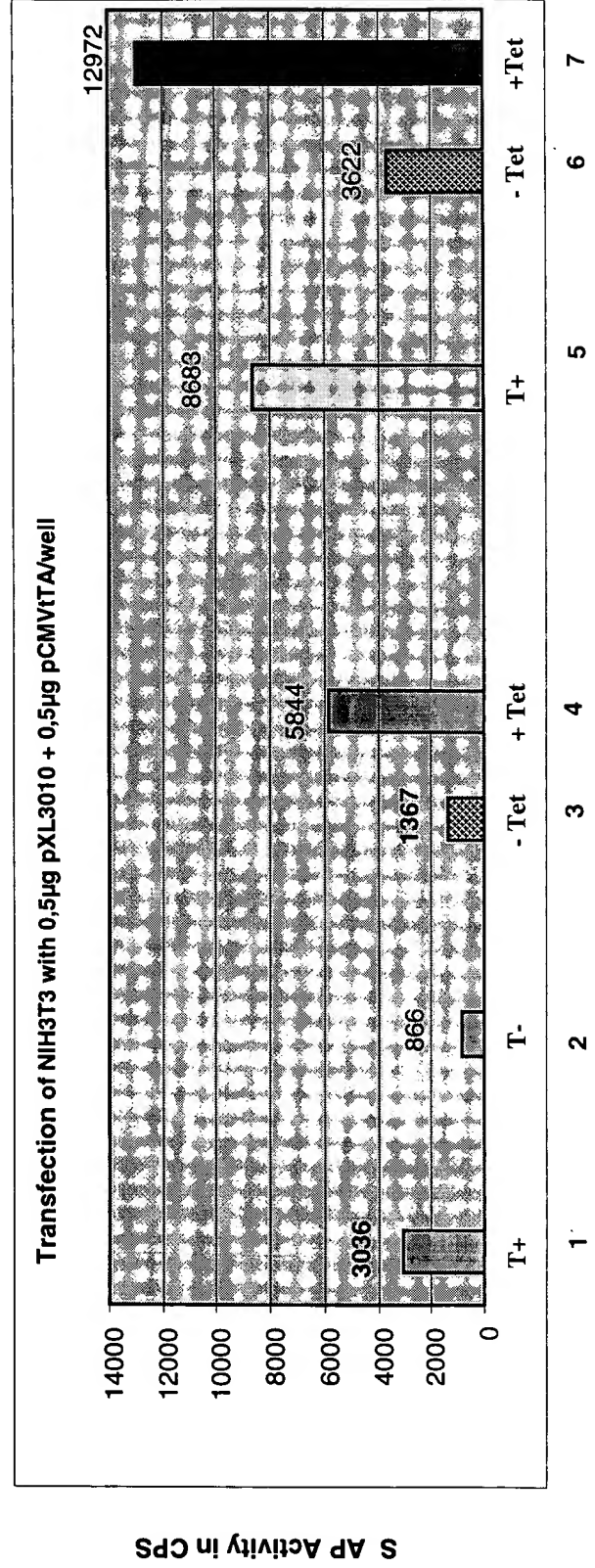


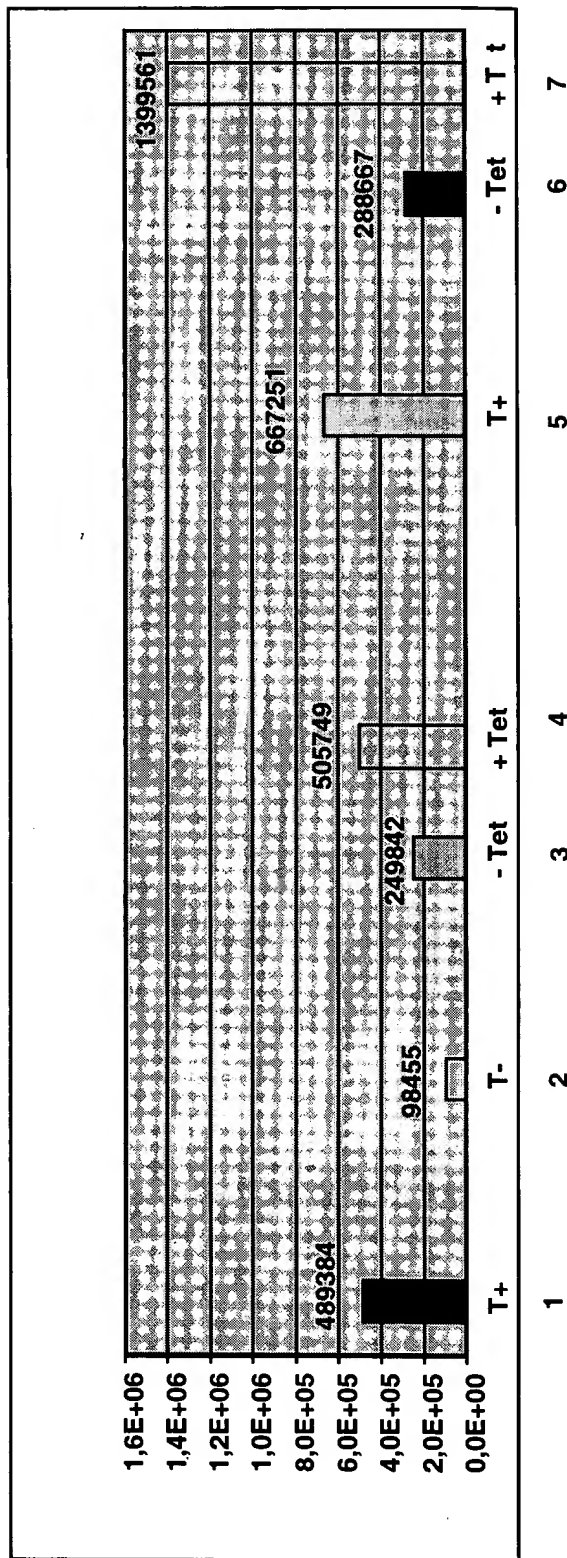
FIGURE 14B



19/31

FIGURE 15

Luciferase Activity in CPS/μg protein



20/31

FIGURE 16A

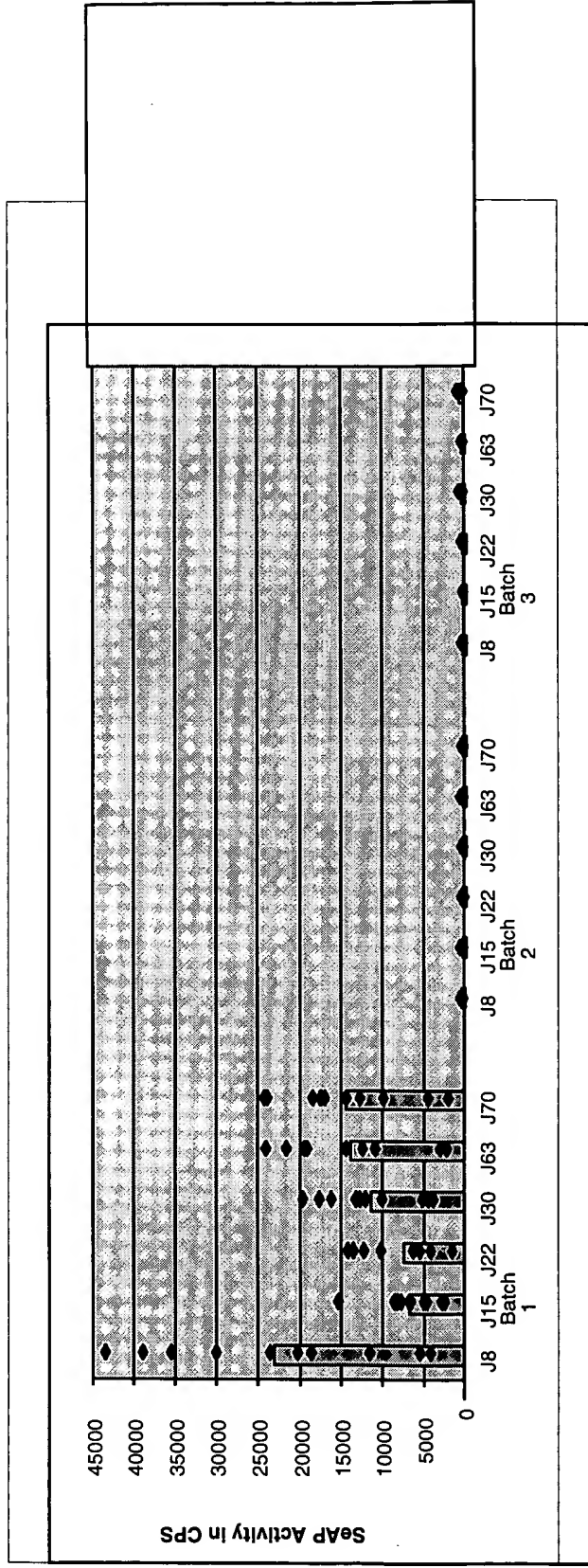


FIGURE 16B

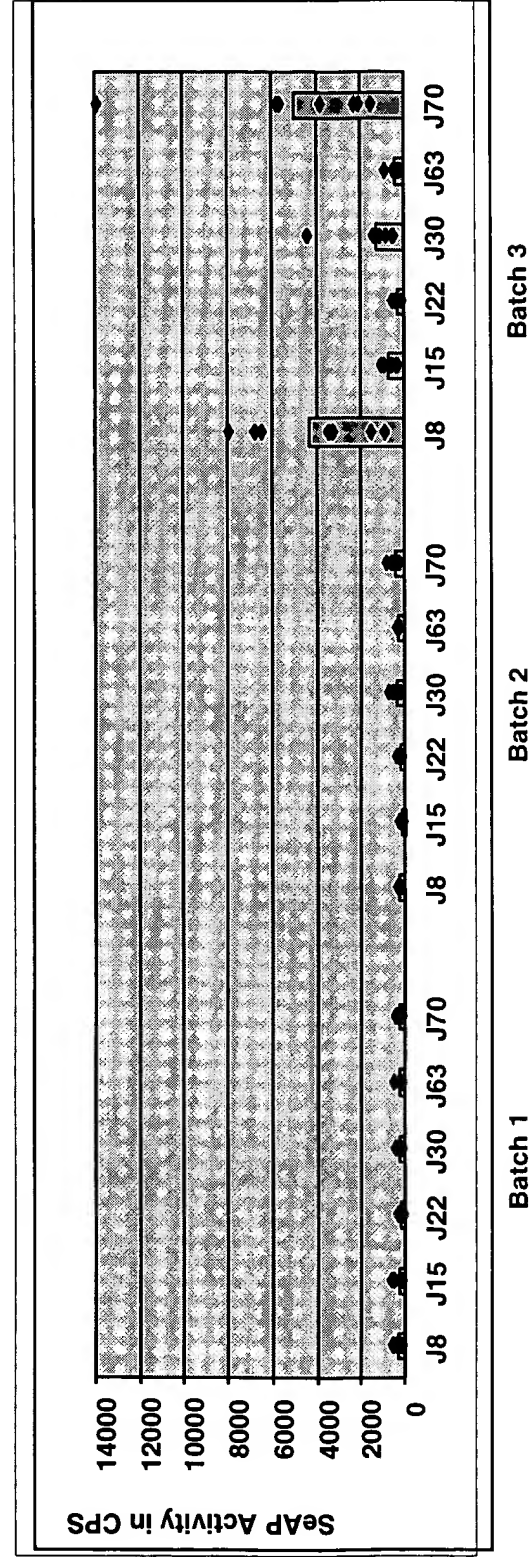
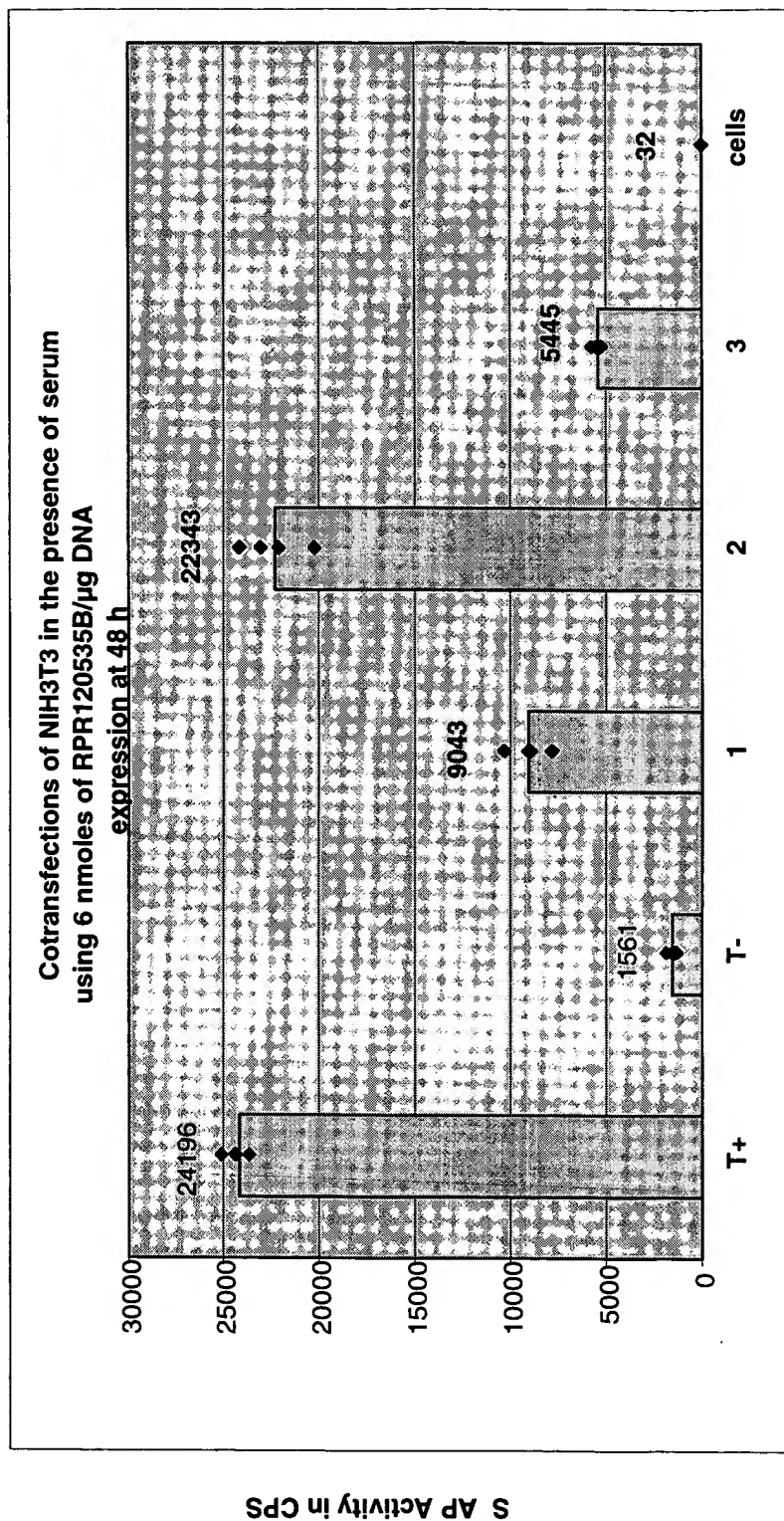


FIGURE 17



## FIGURE 18

Expression of SeAP 48h after cotransfection of NIH3T3s  
using 6 nmol of RPR120535B/ $\mu$ g of DNA

In the presence of serum

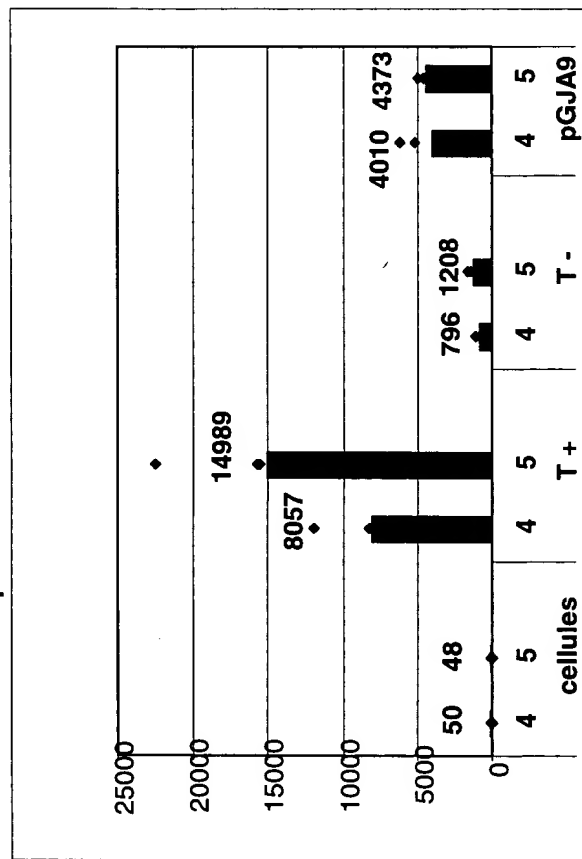


FIGURE 19: Summarizing table of inhibition experiments with antisense transcripts of different lengths

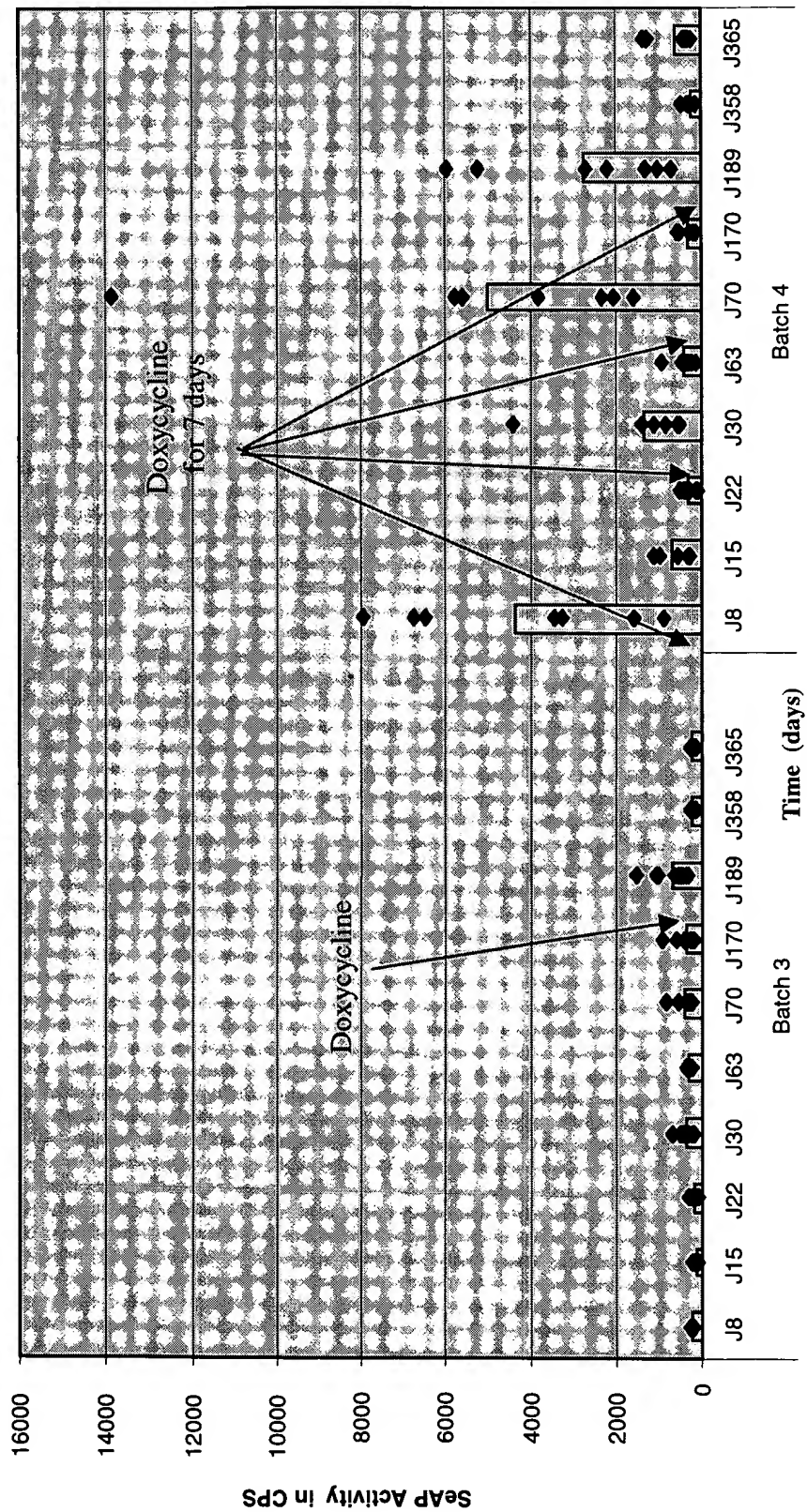
Percentage inhibition of SeAP activity

|         | size (pb) | antisense (pb) | Conserved sequence | Exp. 1 | Exp. 2 | Exp. 3 | Exp. 4 | Exp. 5 |
|---------|-----------|----------------|--------------------|--------|--------|--------|--------|--------|
| pSeAPAS | 3447      | 1527           |                    |        |        |        |        |        |
| pGJA1   | 2045      | 125            | 3' end of SeAP     | 70     | 85     | 94     | 90     | 92     |
| pGJA2   | 1955      | 35             | 5' end of SeAP     | 24     | 52     | 63     |        |        |
| pGJA3   | 2123      | 203            | 5' end of SeAP     | 14     | 0      | 8      |        |        |
| pGJA9   | 2248      | 125 +203       | 2 ends             | 72     | 76     | 77     | 50     | 71     |



FIGURE 20

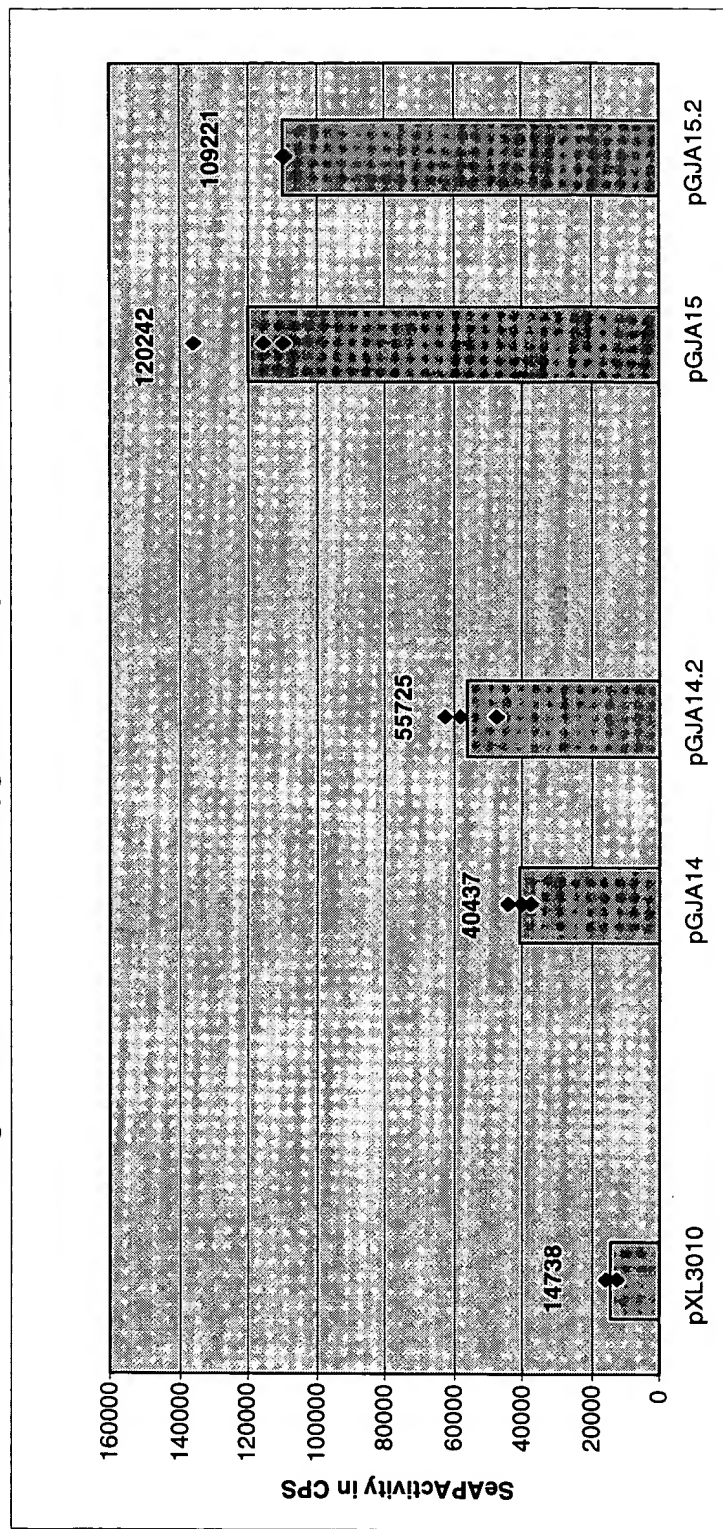
Evaluation of the control of the expression of SeAP with the combination of the SeAPantisense gene and the Tet Off system





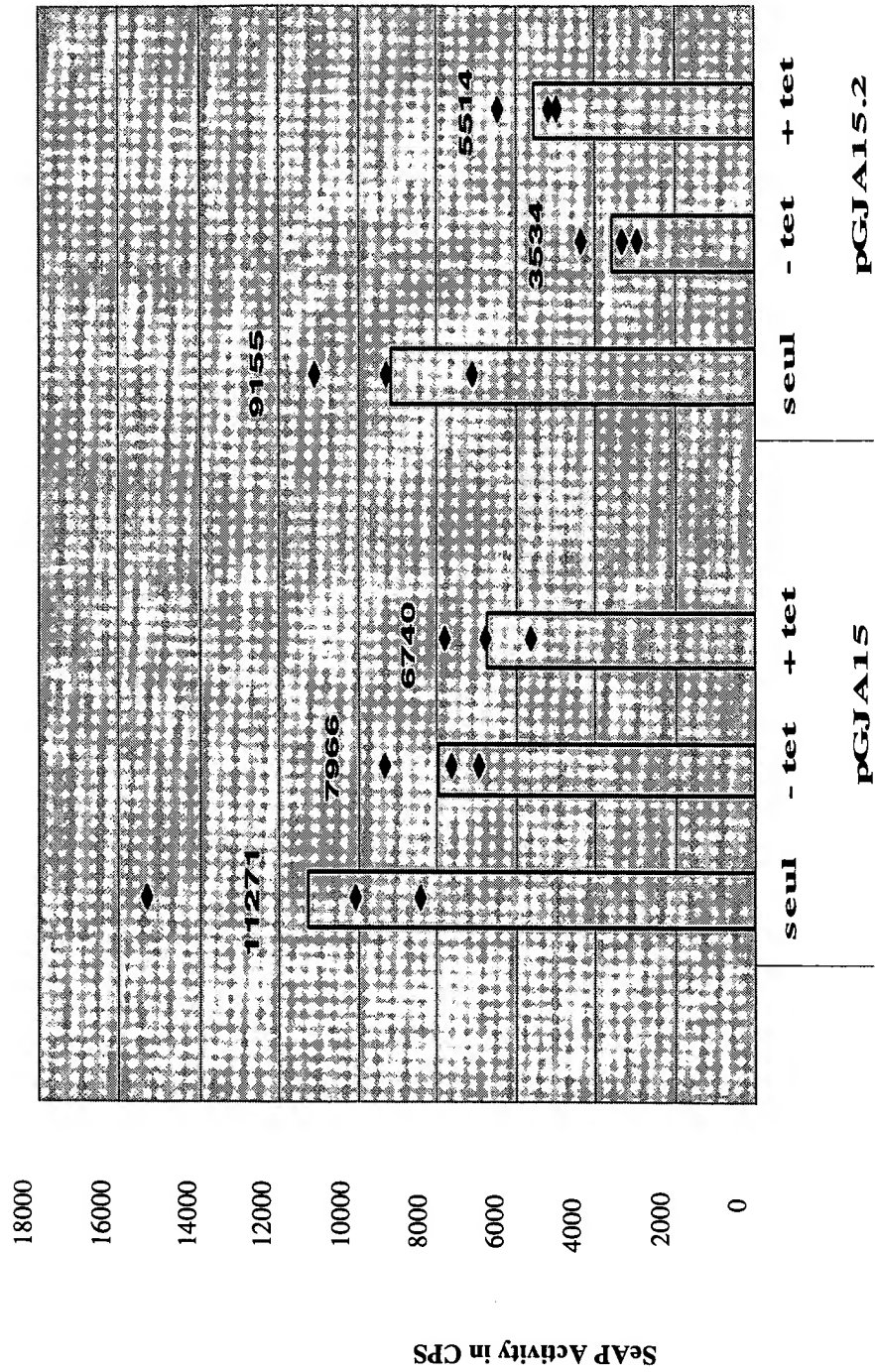
25/31

**FIGURE 21**  
Evaluation of the expression of SeAP 48h after transfection of NIH3T3  
using 6 nmol RPR120535B / $\mu$ g DNA in the presence of serum



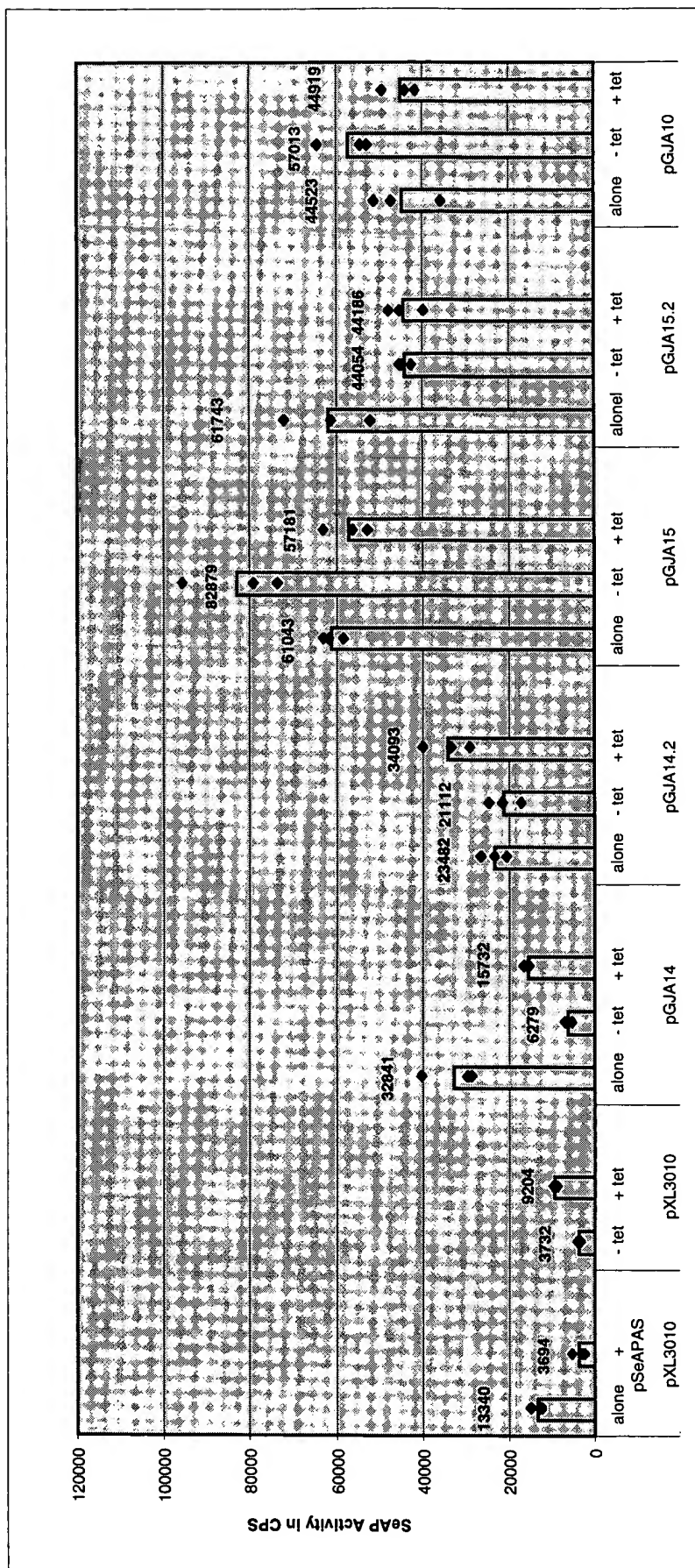
26/31

FIGURE 22



27/31

**FIGURE 23** Regulation of the expression of SeAP 48h after transfection of NIH3T3s using 6 nmol RPR120535B/ $\mu$ g of DNA in the presence of serum



28/31

**FIGURE 24** Decrease in background noise of the hPPARg2 system in C2C12 transfection, expression at day 5

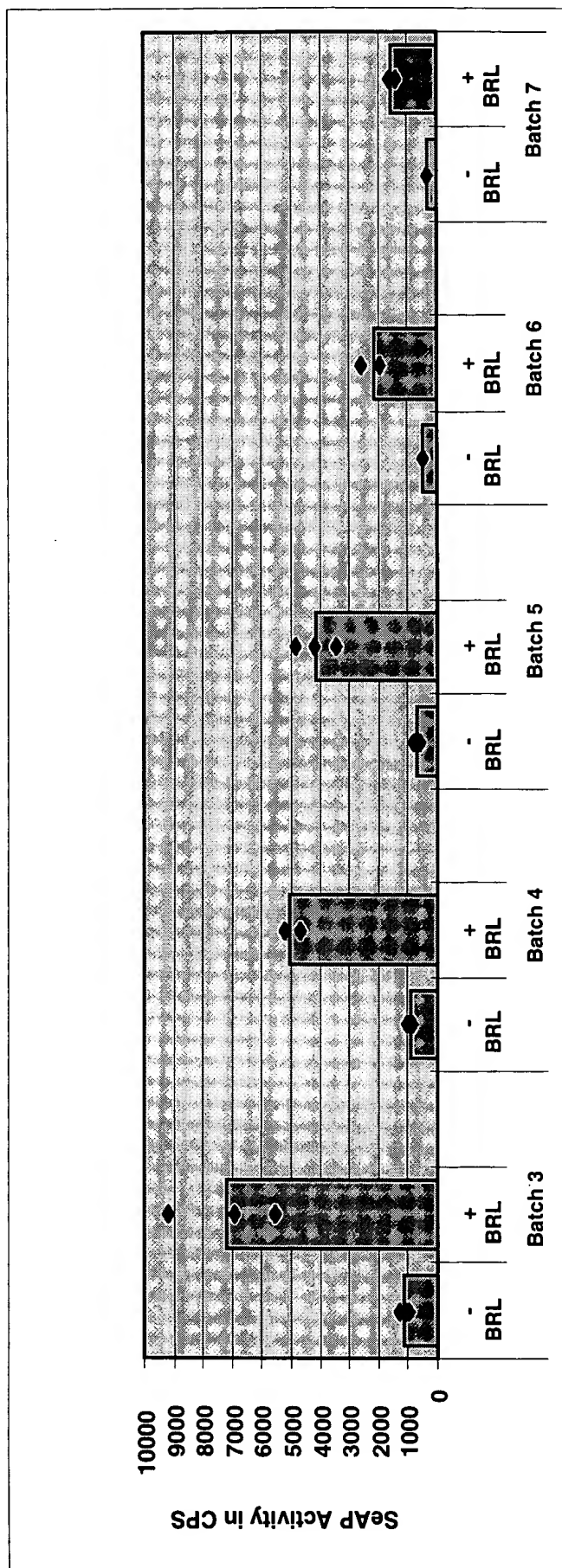
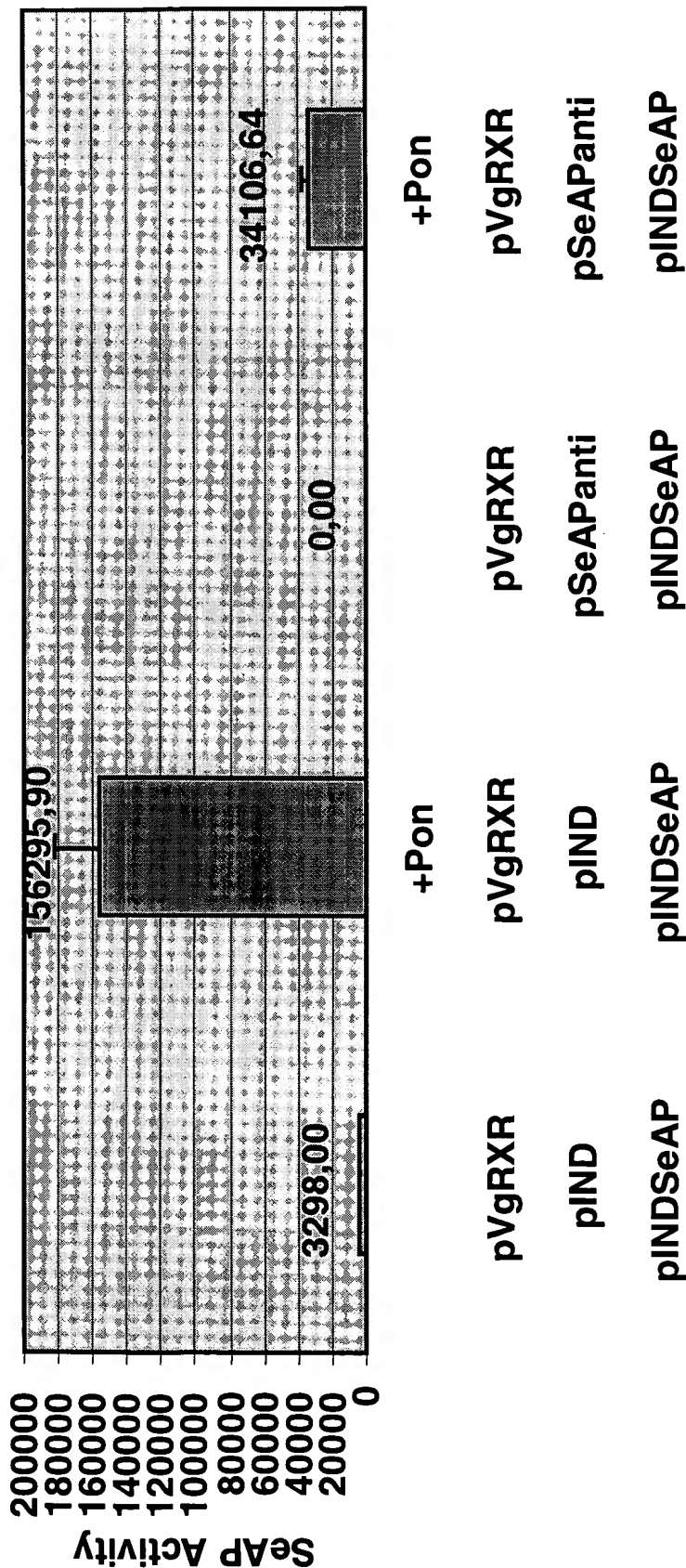


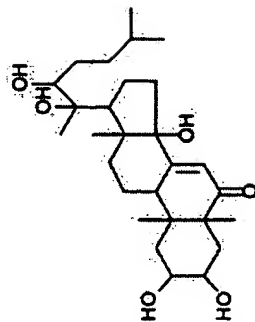
FIGURE 25

# *NIH3T3 Transfection*



30/31

FIGURE 26



ponasterone A



FIGURE 27

